

Product type designation

SCALANCE W734-1 RJ45

IWLAN Client, SCALANCE W734-1, RJ45, 1 radio, 2 R-SMA antenna connector, iFeatures support via KEY-PLUG, IEEE 802.11a/b/g/h/n, 2,4/5GHz, brutto data rate 300 MBit/s, 2x RJ45 max. 100 MBit/s, PoE integrated 2-port-switch, redundant DC 24 V, term. block, IP30, -20... 60°C, plug slot Note national approvals! CERT ID: MSN-W1-RJ-E2, scope of supply: manuals on CD, German/English, 1x terminal block; only for use in USA



Transmission rate

Transfer rate

- | | |
|---------------------------|--|
| • with WLAN / maximum | 300 Mbit/s |
| • for Industrial Ethernet | 10 Mbit/s, 100 Mbit/s, 10 Mbit/s, 100 Mbit/s |

Interfaces

Number of electrical connections

- | | |
|--|---|
| • for network components or terminal equipment | 2 |
| • for power supply | 1 |
| • for redundant voltage supply | 1 |

Type of electrical connection

- | | |
|--|----------------------------|
| • for network components or terminal equipment | RJ45 socket |
| • for power supply | 4-pole screw terminal, PoE |

design of the removable storage

- | | |
|------------|-----|
| • C-PLUG | Yes |
| • KEY-PLUG | Yes |

Interfaces / wireless

- | | |
|---|---|
| Number of radio cards / permanently installed | 1 |
|---|---|

Transmission mode / for multiple input multiple output (MIMO)	2x2
Number of spatial streams	2
Number of electrical connections / for external antenna(s)	2
Type of electrical connection / for external antenna(s)	R-SMA (socket)
Product feature / external antenna can be mounted directly on device	Yes

Supply voltage, current consumption, power loss

Type of voltage / of the supply voltage	DC
Supply voltage / 1 • from terminal block	19.2 V
Supply voltage / 2 • from terminal block	28.8 V
Supply voltage • from Power-over-Ethernet acc. to IEEE802.3at for type 1 and IEEE802.3af	48 V
Consumed current • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	0.25 A 0.125 A
Power loss [W] • at DC / at 24 V / typical • with Power-over-Ethernet according to IEEE802.3at for type 1 and IEEE802.3af / typical	6 W 6 W

Permitted ambient conditions

Ambient temperature • during operation • during storage • during transport	-20 ... +60 °C -40 ... +85 °C -40 ... +85 °C
Relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
Ambient condition / for operation	When used under hazardous conditions (Zone 2), the SCALANCE W774-1 RJ45 or W734-1 RJ45 product must be installed in an enclosure. To comply with EN 50021, this enclosure must meet the requirements of at least IP 54 in compliance with EN 60529.
Protection class IP	IP30

Design, dimensions and weight

Width	26 mm
Height	156 mm
Depth	127 mm
Width / of the enclosure / without antenna	26 mm
Height / of the enclosure / without antenna	147 mm

Depth / of the enclosure / without antenna	127 mm
Net weight	0.52 kg
Mounting type	wall mounting only if flat mounted
• S7-300 rail mounting	Yes
• S7-1500 rail mounting	Yes
• 35 mm DIN rail mounting	Yes
• wall mounting	Yes

Wireless frequencies

Operating frequency	
• for WLAN in 2.4 GHz frequency band	2.41 ... 2.48 GHz
• for WLAN in 5 GHz frequency band	4.9 ... 5.8 GHz

Product properties, functions, components / general

Product function / Access Point Mode	No
Product function / Client Mode	Yes
Product function	
• iPCF client	Yes; Only in combination with the 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
• iPCF-MC Access Point	No
• iPCF-MC client	Yes; Only in combination with 'KEY-PLUG W780 iFeatures' or 'KEY-PLUG W740 iFeatures'
Number of iPCF-capable radio modules	1

Product functions / management, configuration

Number of manageable IP addresses / in client	8
Product function	
• CLI	Yes
• web-based management	Yes
• MIB support	Yes
• TRAPs via email	Yes
• Configuration with STEP 7	Yes
• configuration with STEP 7 in the TIA Portal	Yes
• WDS	No
Protocol / is supported	
• Address Resolution Protocol (ARP)	Yes
• ICMP	Yes
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• DCP	Yes
• LLDP	No
Identification & maintenance function	

- I&M0 - device-specific information
- I&M1 – higher-level designation/location designation

Yes

Yes

Product functions / Diagnosis

Product function

- PROFINET IO diagnosis
- Link Check
- connection monitoring IP-Alive
- SysLog

Yes

No

No

Yes

Protocol / is supported

- SNMP v1
- SNMP v2
- SNMP v3

Yes

Yes

Yes

Product functions / VLAN

Product function

- function VLAN with IWLAN

No

Product functions / DHCP

Product function

- DHCP client
- in Client Mode / DHCP server via LAN
- DHCP Option 82

Yes

Yes

Yes

Product functions / Security

Product function

- ACL - MAC-based
- Management security, ACL-IP based
- IEEE 802.1x (radius)
- NAT/NAPT
- access protection according to IEEE802.11i
- WPA/WPA2
- TKIP/AES

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Protocol / is supported

- SSH
- RADIUS

Yes

Yes

Product functions / Time

Protocol / is supported

- NTP
- SNTP
- SIMATIC Time

Yes

Yes

Yes

Standards, specifications, approvals

Standard	
• for FM • for hazardous zone • for safety / from CSA and UL • for hazardous zone / from CSA and UL	FM 3611: Class I, Division 2, Groups A,B,C,D, T4 / Class 1, Zone 2, Group IIC, T4 EN 60079-15:2005, EN 60079-0:2006, II 3 G Ex nA II T4 KEMA 07 ATEX 0145X UL 60950-1 CSA C22.2 No. 60950-1 ANSI/ISA 12.12.01-2013, CAN/CSA C22.2 No.213-M1987, CL. 1, Div. 2, GP. A,B,C,D, T4 / CL. 1, Zone 2, GP IIC
Certificate of suitability	
• EC declaration of conformity • CE marking • C-Tick • CCC • E1 approval • Railway application in accordance with EN 50155 • NEMA TS2 • IEC 61375 • IEC 61850-3 • NEMA4X • Power-over-Ethernet according IEEE802.3at for type 1 and IEEE802.3af • Power-over-Ethernet according to IEEE802.3at for type 2	Yes Yes Yes No No No No No No Yes Yes
Standard for wireless communication	
• IEEE 802.11a • IEEE 802.11b • IEEE 802.11e • IEEE 802.11g • IEEE 802.11h • IEEE 802.11i • IEEE 802.11n	Yes Yes Yes Yes Yes Yes Yes
Wireless approval	You will find the current list of countries at: www.siemens.de/funkzulassungen
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS) • Bureau Veritas (BV) • DNV GL • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS) • Royal Institution of Naval Architects (RINA)	Yes Yes Yes Yes Yes Yes Yes

Accessories

accessories

24 V DC screw terminal included in scope of delivery

Further Information / Internet Links

Internet-Link

- to website: TIA Selection Tool
- to the website: IWLAN
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/tia-selection-tool>

<http://www.siemens.com/iwlan>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

Security information

Security information

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